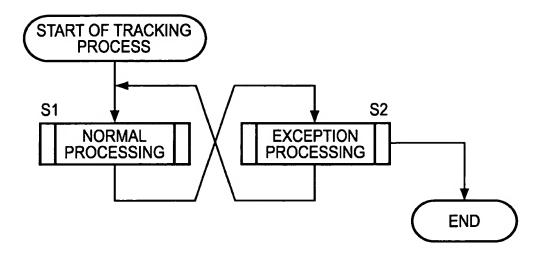
١,

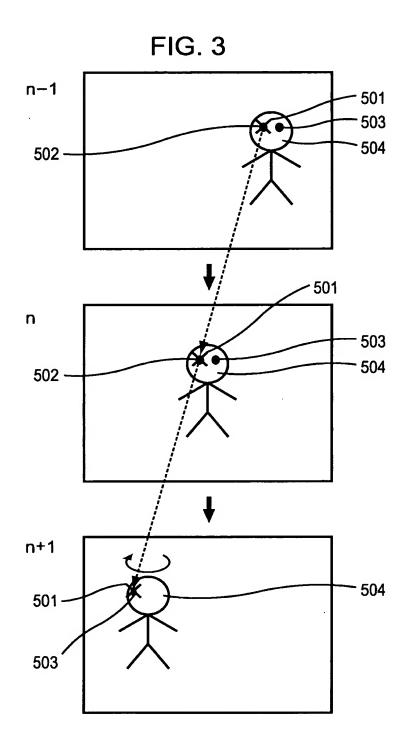
FIG. 1 **INPUT** TRACKING POINT **IMAGE** INSTRUCTION **BACKGROUND** MOTION ESTIMATION UNIT REGION-ESTIMATION RELATED PROCESSING UNIT -18 -16 -19 TRANSFER CANDIDATE TEMPLATE STORAGE CONTROL UNIT STORAGE UNIT **UNIT** -17 **TRACKING** TEMPLATE MATCHING **POINT DETERMINATION** UNIT UNIT TRACKING RESULT -13 -12 **SCENE** MOTION CHANGE DETECTION **ESTIMATION UNIT** UNIT

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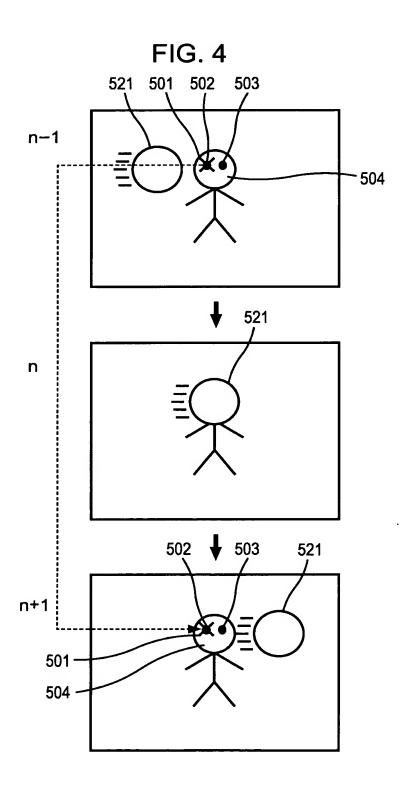
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FIG. 2



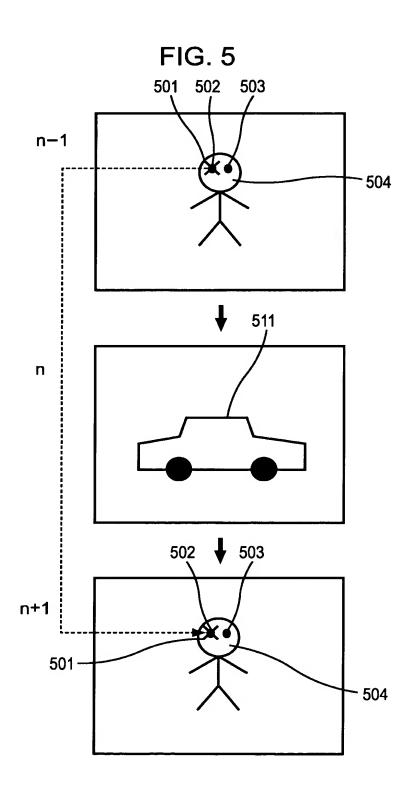


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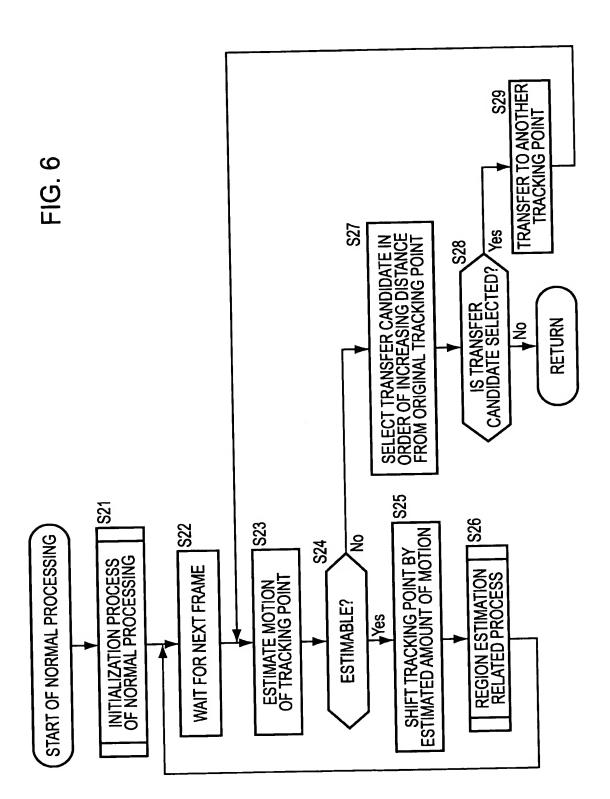
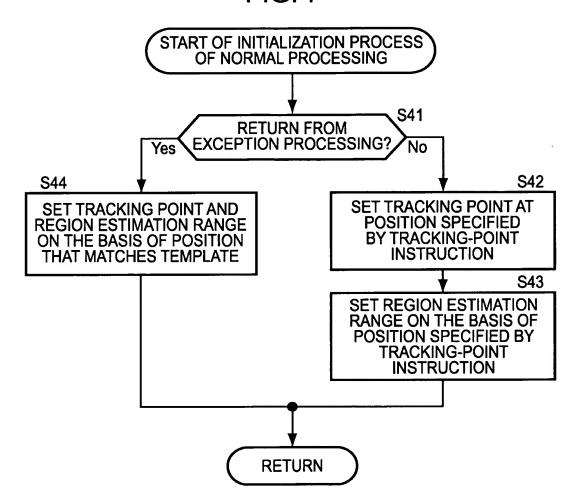
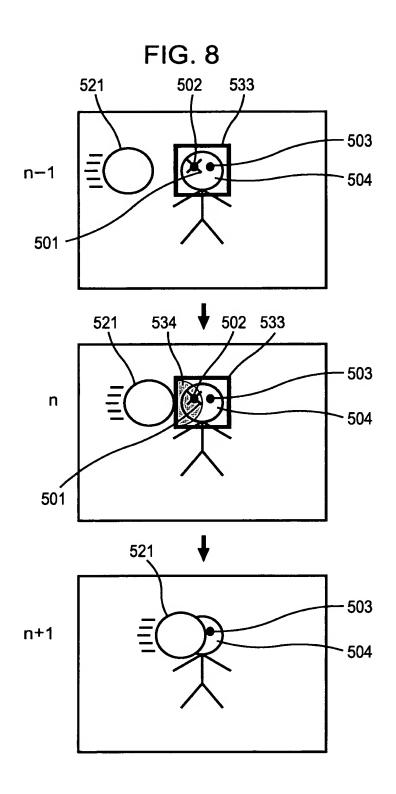
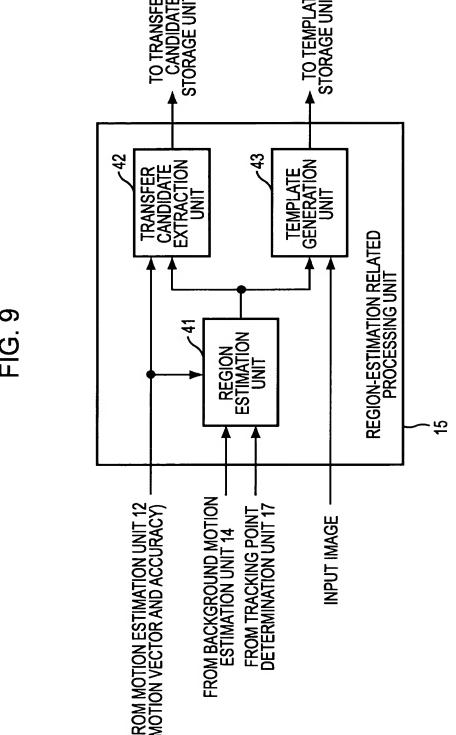


FIG. 7



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START OF REGION-ESTIMATION RELATED PROCESS

REGION ESTIMATION PROCESS

TRANSFER CANDIDATE EXTRACTION PROCESS

S62

TEMPLATE GENERATION PROCESS

RETURN

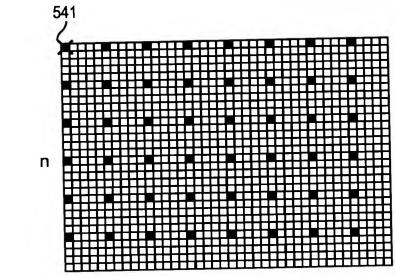
FIG. 11 START OF REGION **ESTIMATION PROCESS** S81 **DETERMINE SAMPLE POINTS S82** ESTIMATE MOTIONS OF SAMPLE POINTS IN REGION **ESTIMATION RANGE S83** REMOVE POINTS HAVING LOW ACCURACY FROM MOTION ESTIMATION RESULT **S84** EXTRACT FULL-SCREEN MOTION FROM MOTION ESTIMATION RESULT IN REGION ESTIMATION RANGE **S85** EXTRACT SAMPLE POINTS IN REGION ESTIMATION RANGE HAVING FULL-SCREEN MOTION AS REGION ESTIMATION RESULT **S86 UPDATE PROCESS OF** REGION ESTIMATION RANGE **RETURN**

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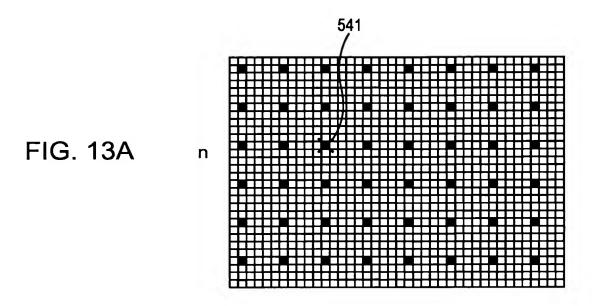
S05P0307

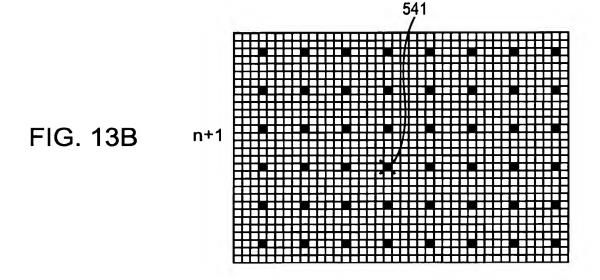
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FIG. 12A



541 FIG. 12B n+1





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FIG. 14A

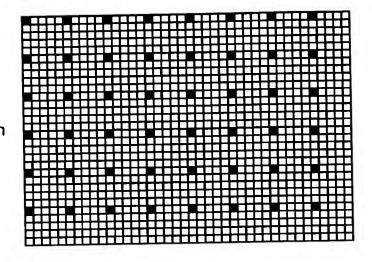
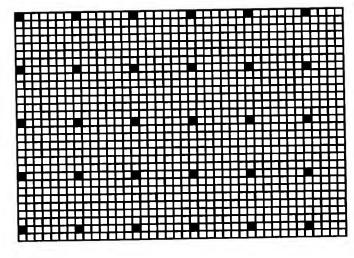


FIG. 14B n+1



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FIG. 15

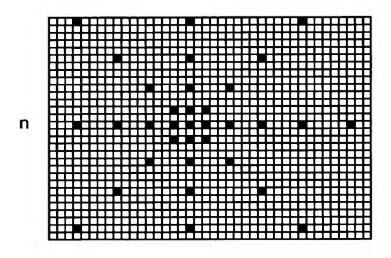
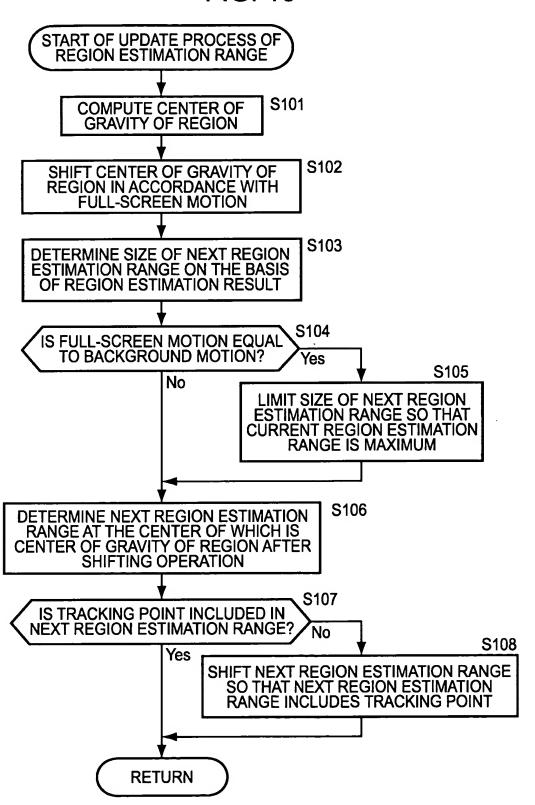


FIG. 16



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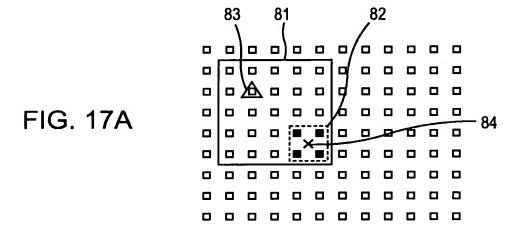


FIG. 17B

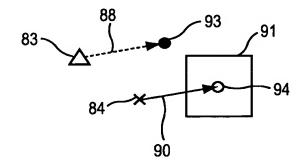
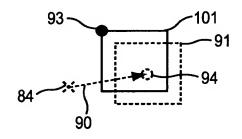
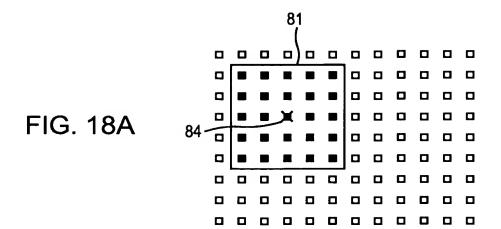
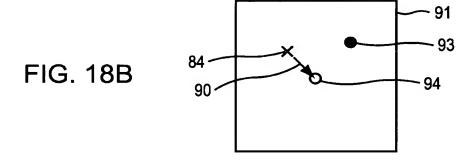


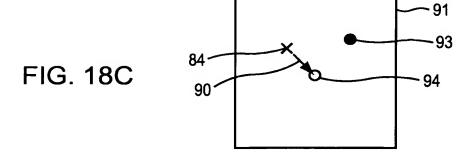
FIG. 17C



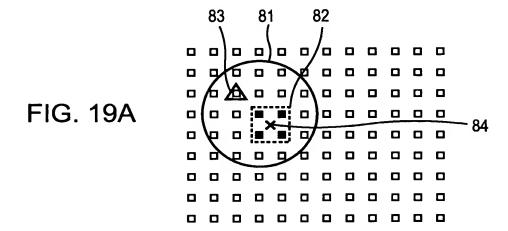
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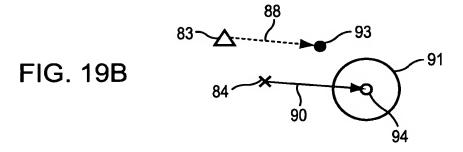


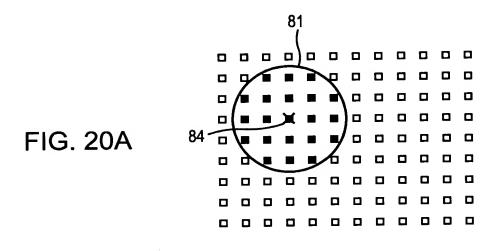


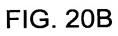


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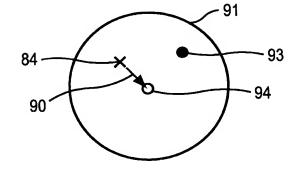


FIG. 20C

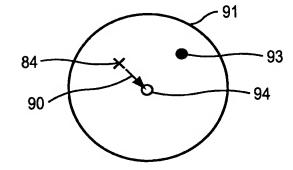
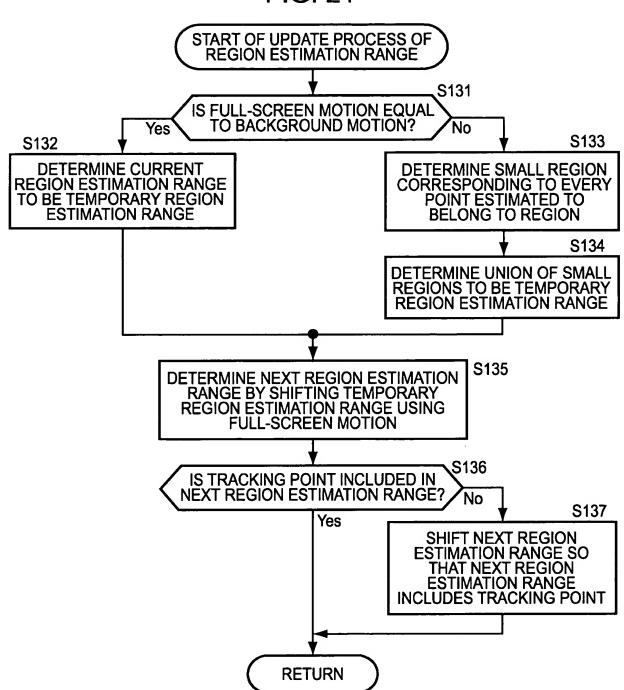
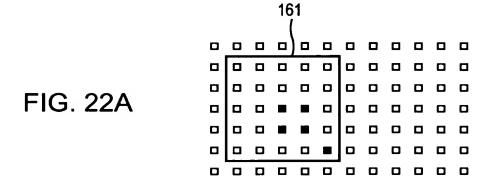


FIG. 21



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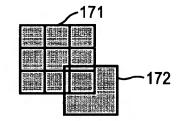


FIG. 22C

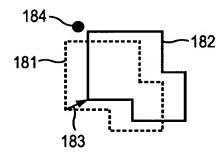


FIG. 22D

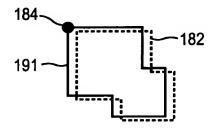


FIG. 23

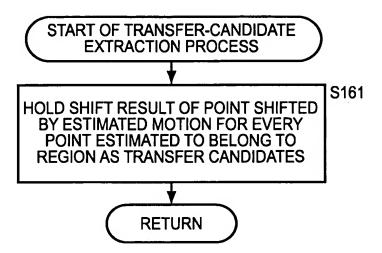
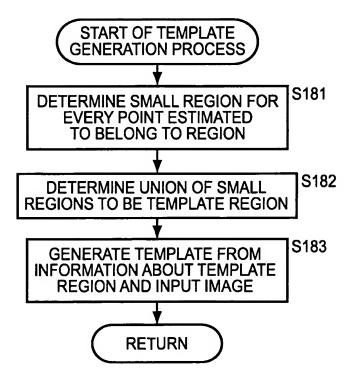
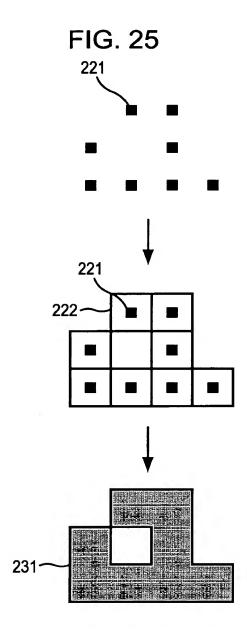
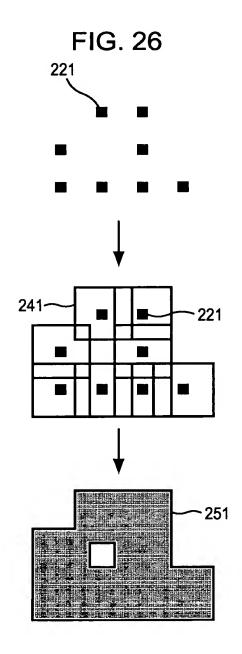


FIG. 24



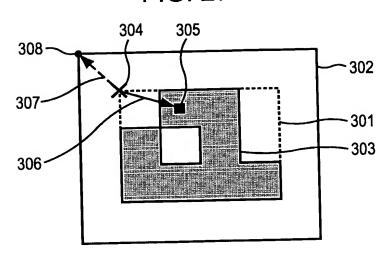




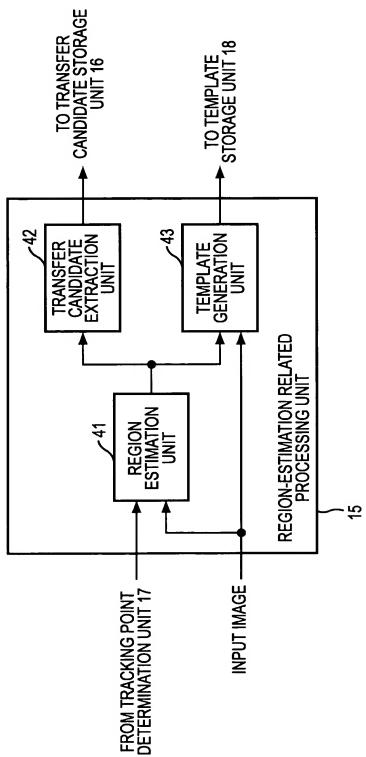
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FIG. 27

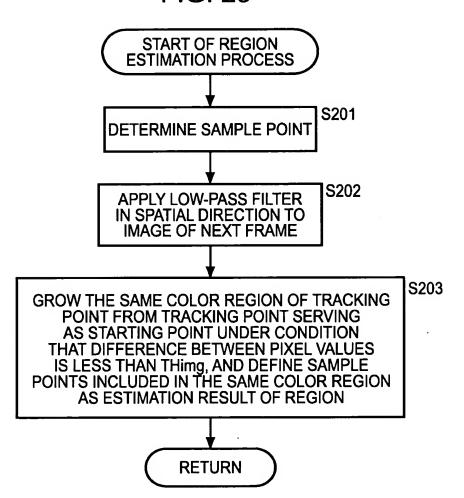






-1G. 28

FIG. 29



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FIG. 30A

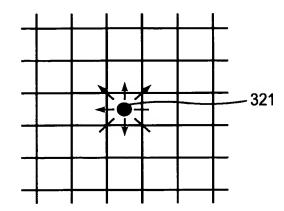


FIG. 30B

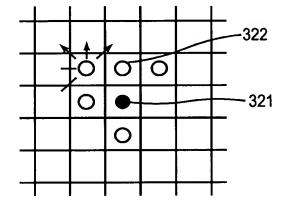


FIG. 30C

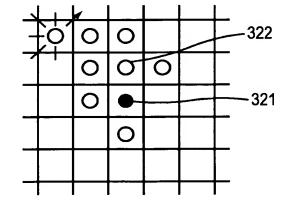


FIG. 31

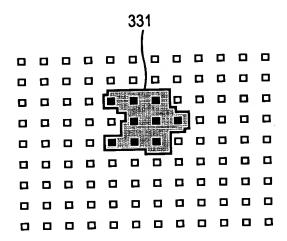


FIG. 32

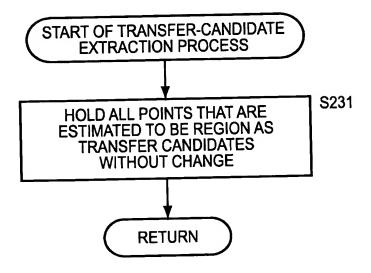


FIG. 33

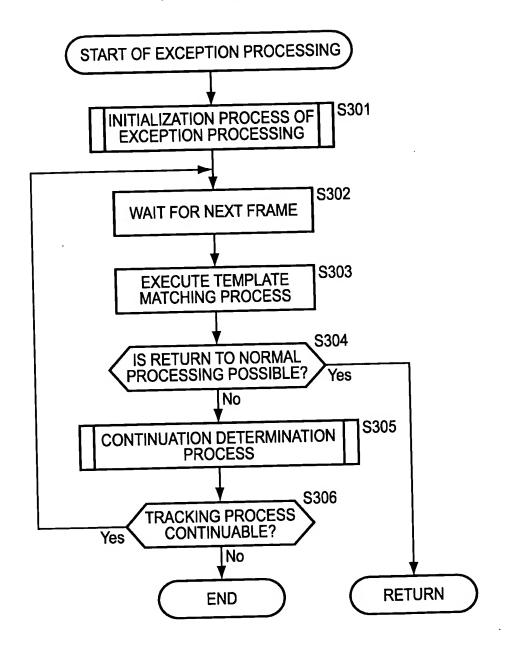
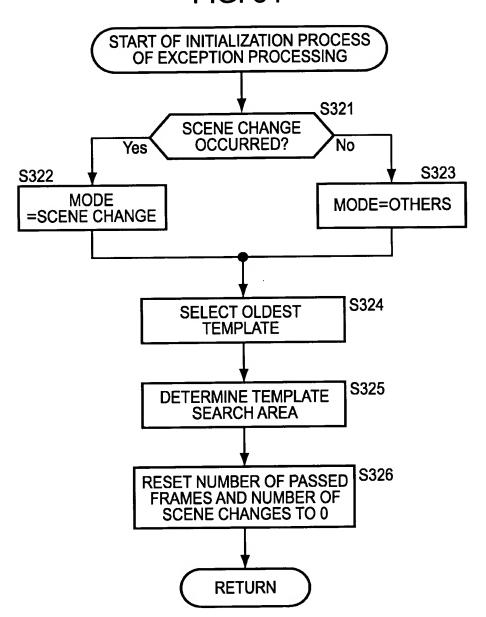


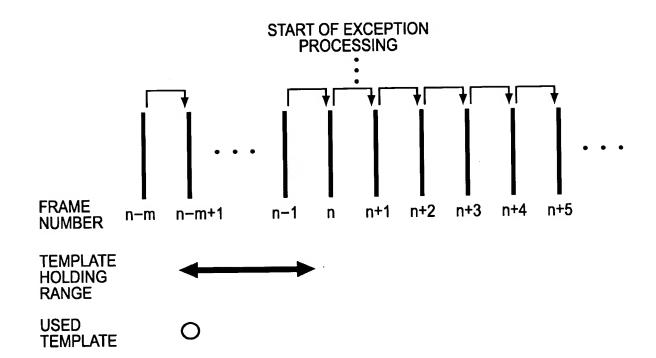
FIG. 34



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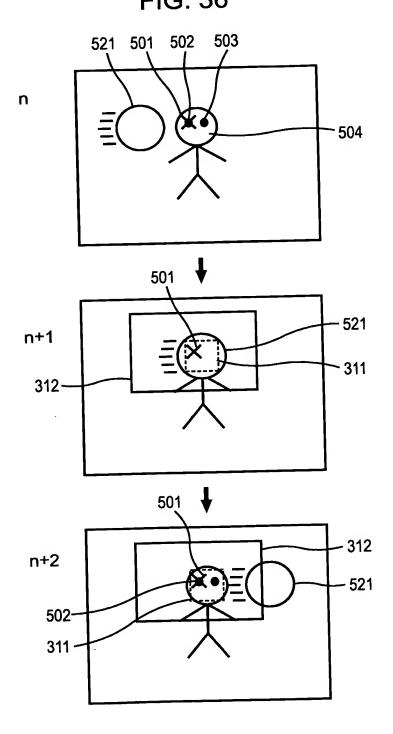
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FIG. 35



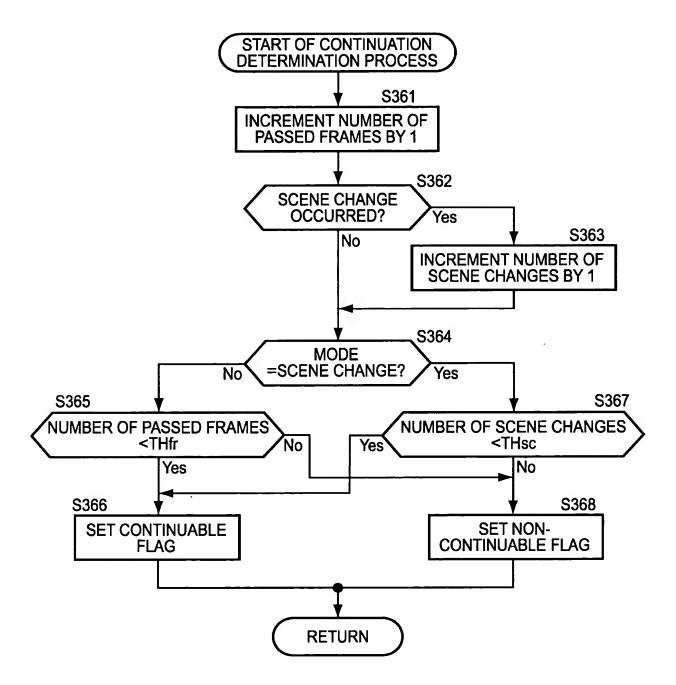
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FIG. 36



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FIG. 37



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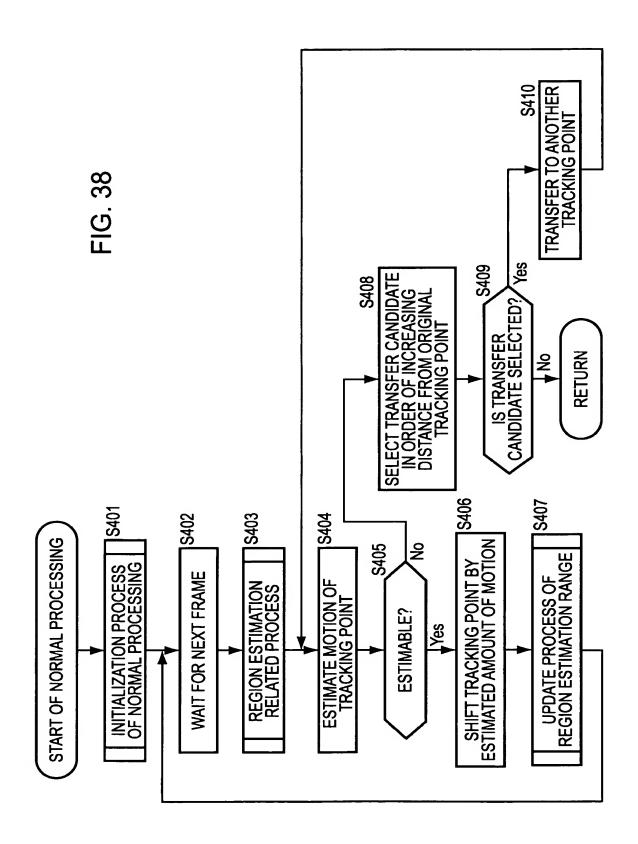


FIG. 39

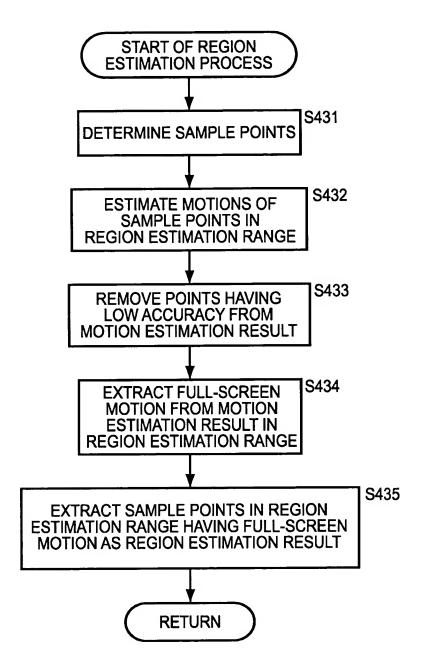


FIG. 40

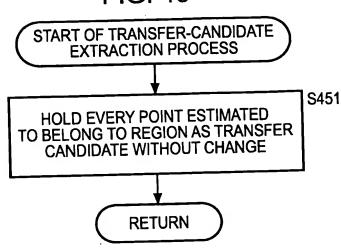
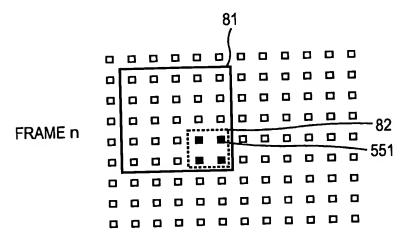
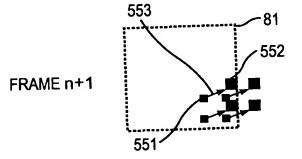


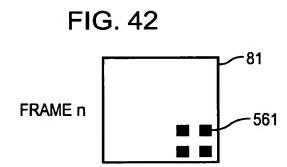
FIG. 41



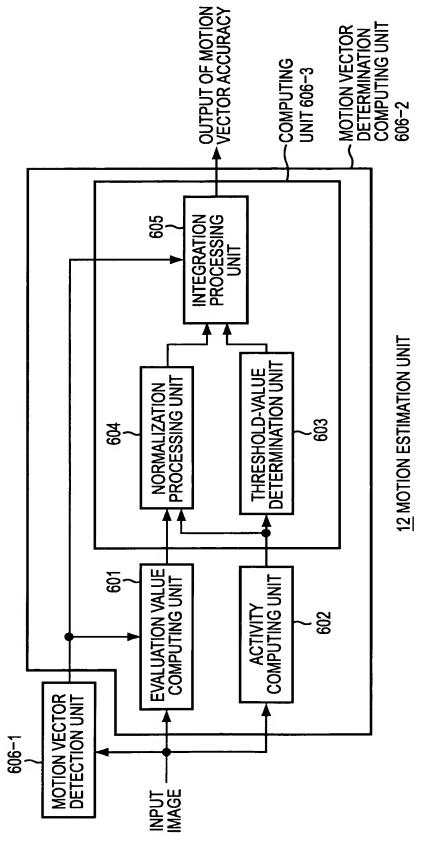


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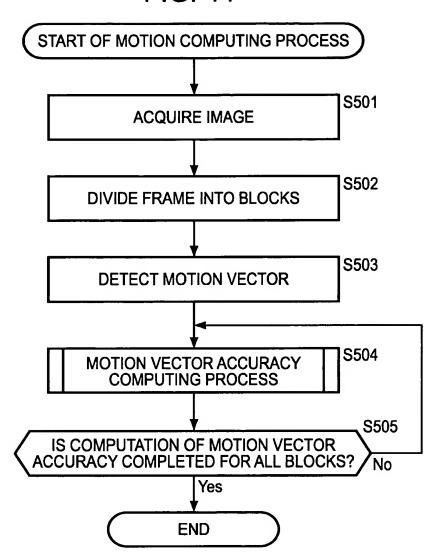






:IG: 43

FIG. 44



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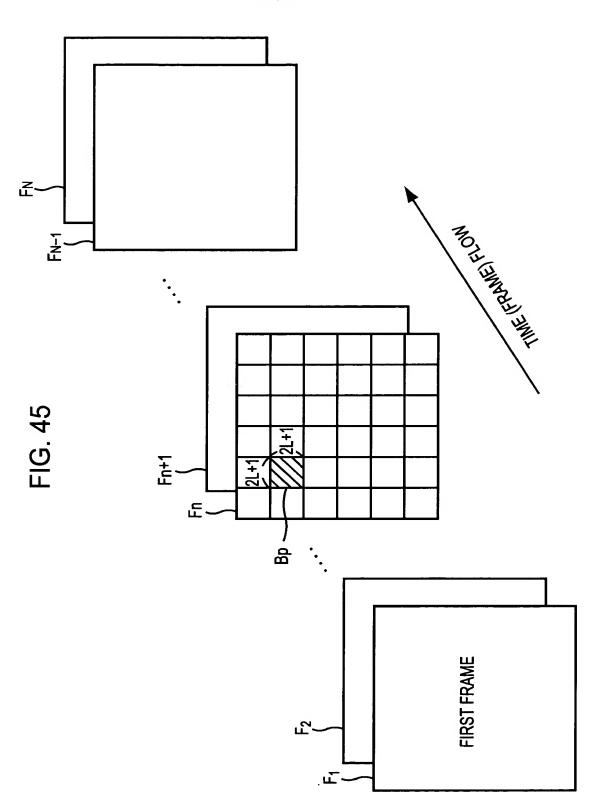


FIG. 46

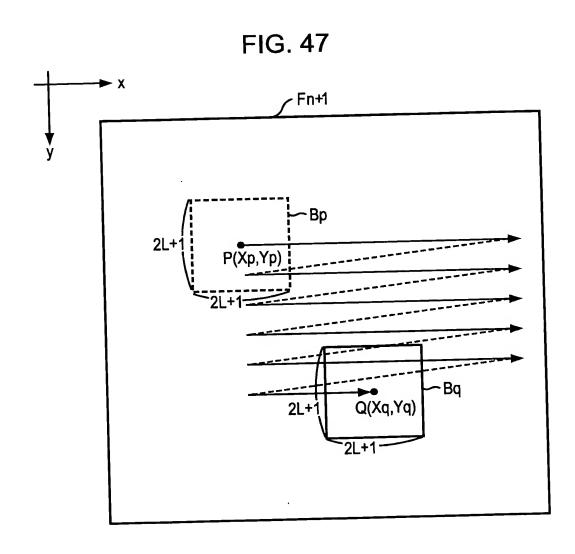
Y

P(Xp,Yp)

2L+1

P(Xp,Yp)

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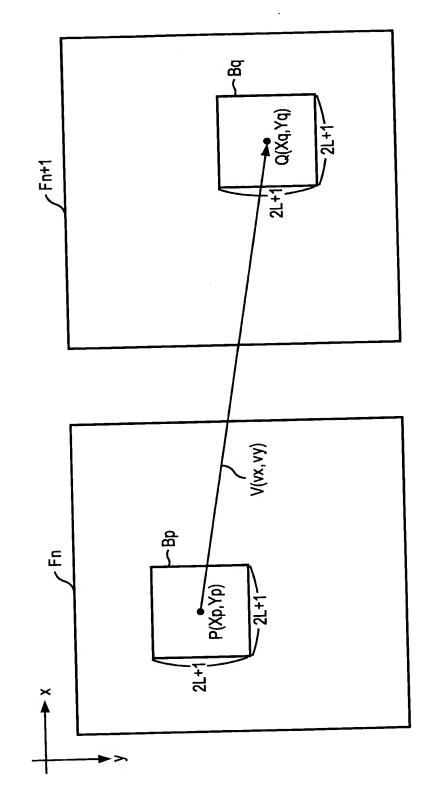
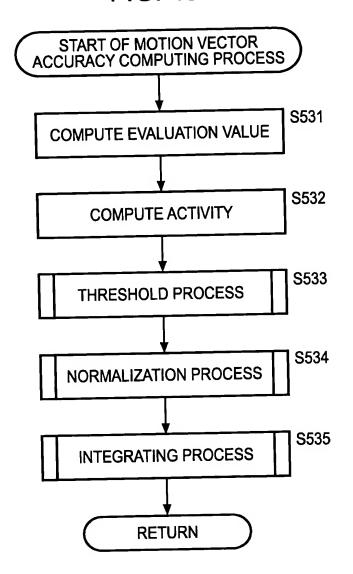


FIG. 48

FIG. 49



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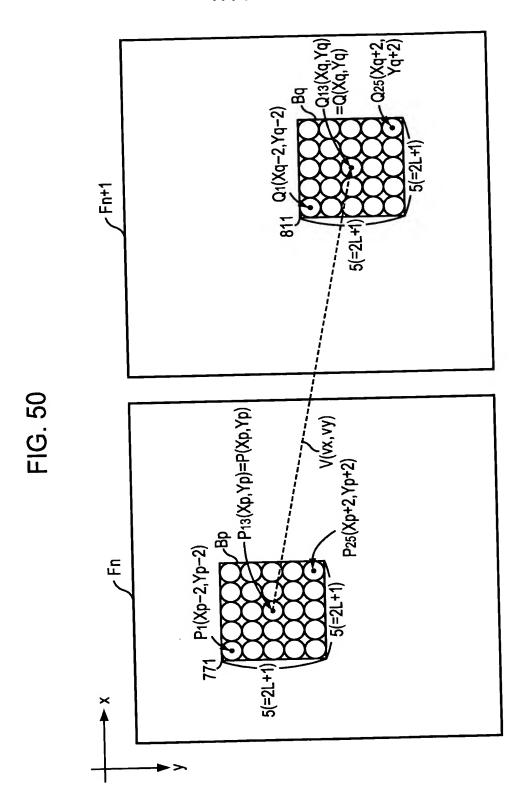


FIG. 51

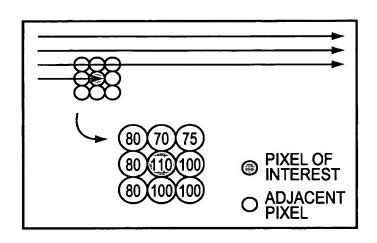
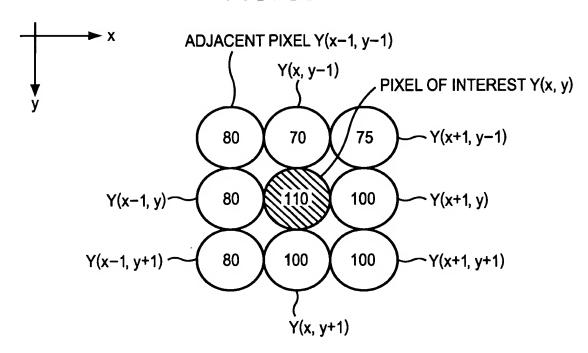


FIG. 52



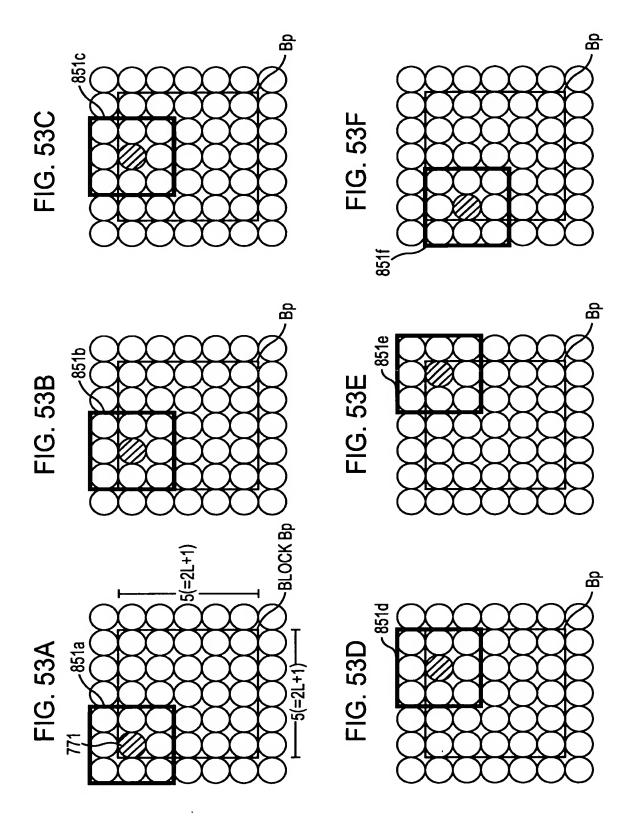


FIG. 54

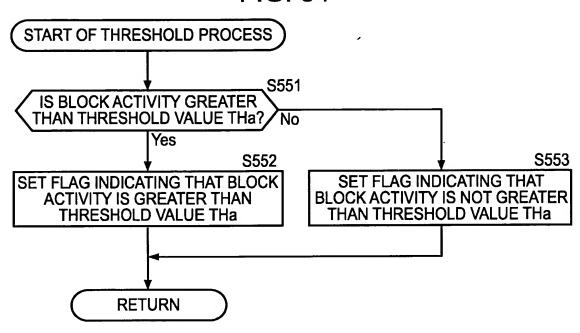


FIG. 55

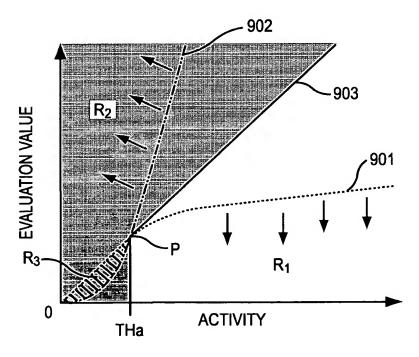


FIG. 56

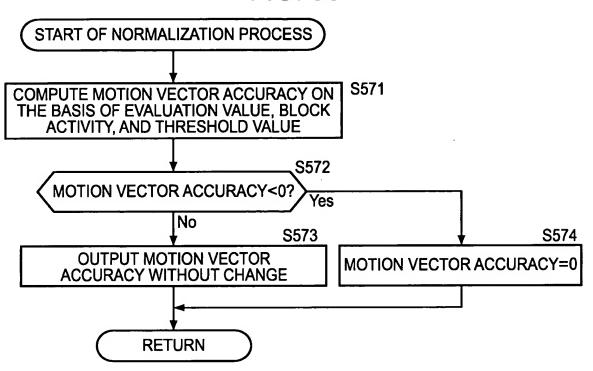
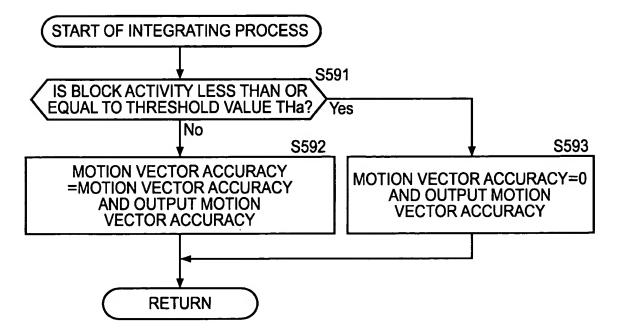


FIG. 57



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FROM MOTION ESTIMATION UNIT 12

FREQUENCY DISTRIBUTION COMPUTING UNIT

FREQUENCY DISTRIBUTION MOTION DETERMINATION PROCESSING UNIT 15

FIG. 59

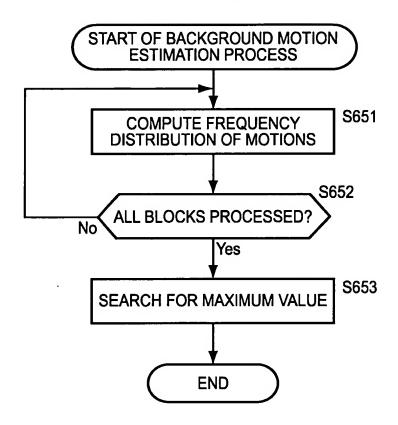
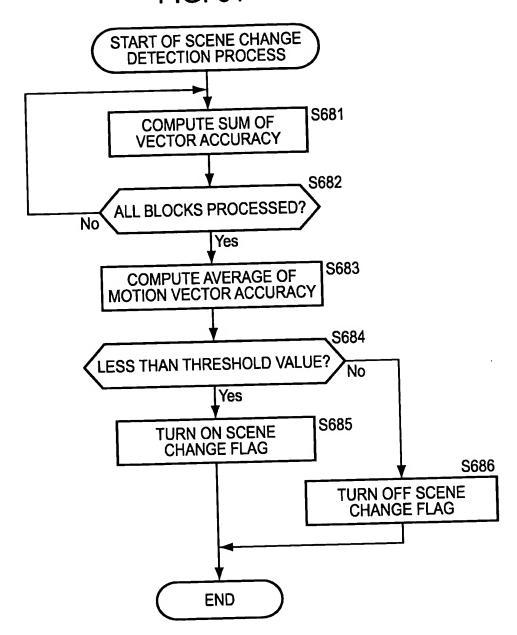
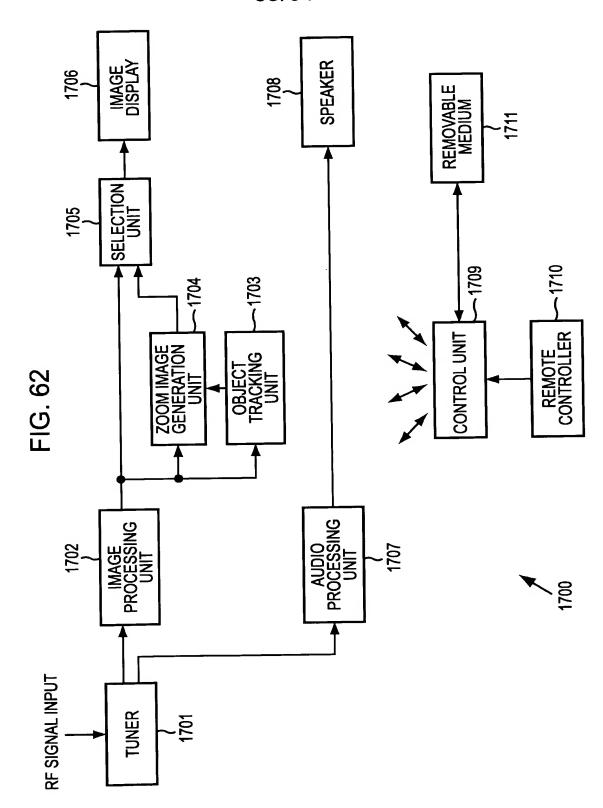


FIG. 60 1071 1072 FROM **MOTION-VECTOR-THRESHOLD** TO CONTROL **MOTION ACCURACY** DETERMINATION **ESTIMATION AVERAGE UNIT 19 UNIT UNIT 12 COMPUTING UNIT**

FIG. 61

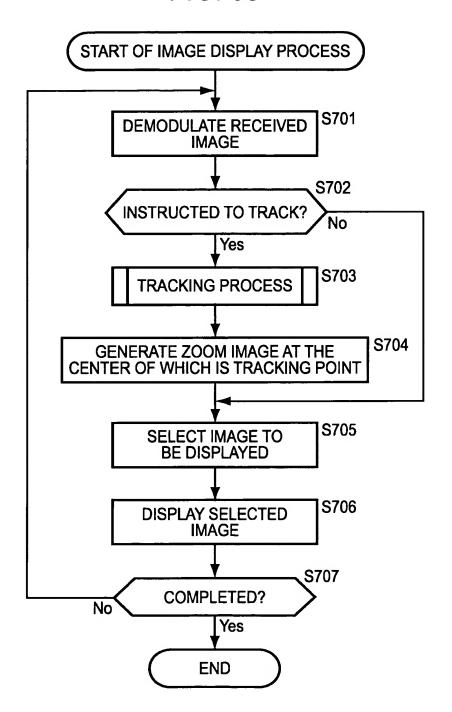


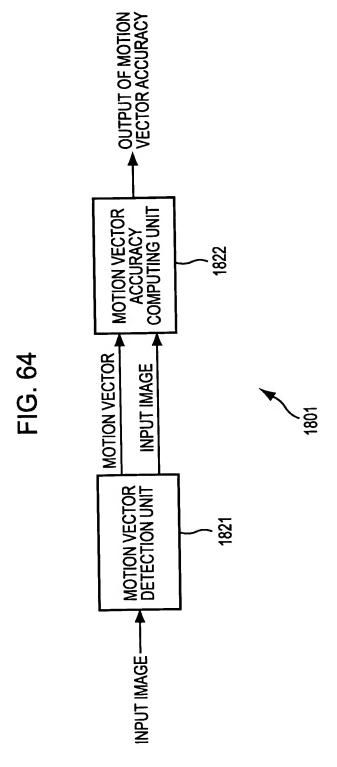


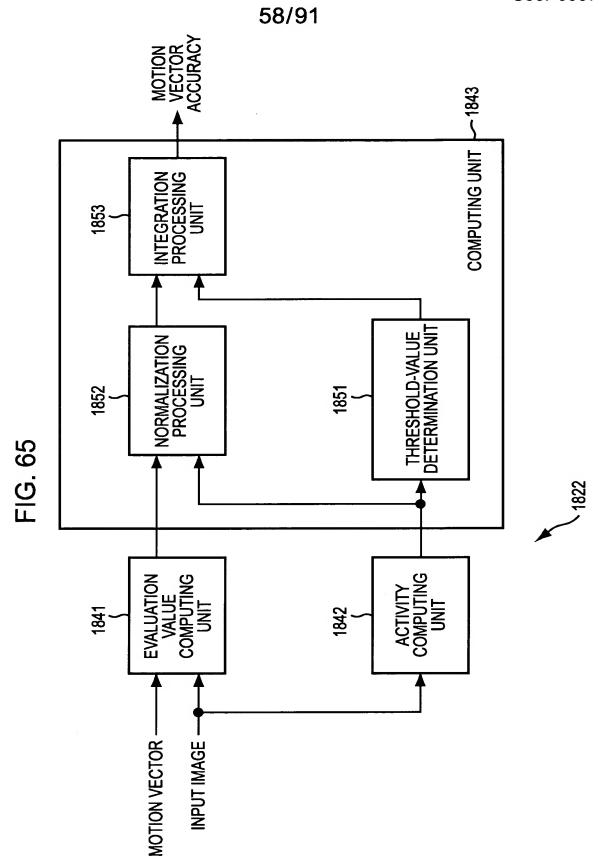


-

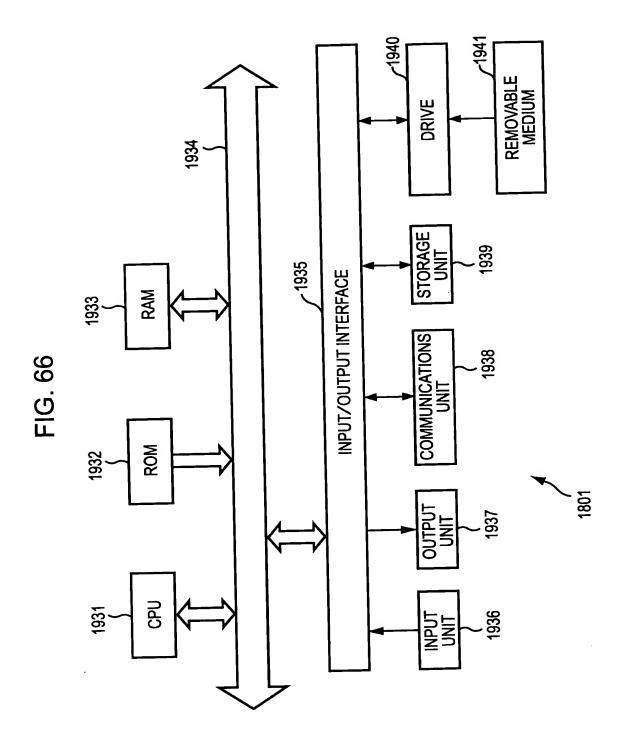
FIG. 63



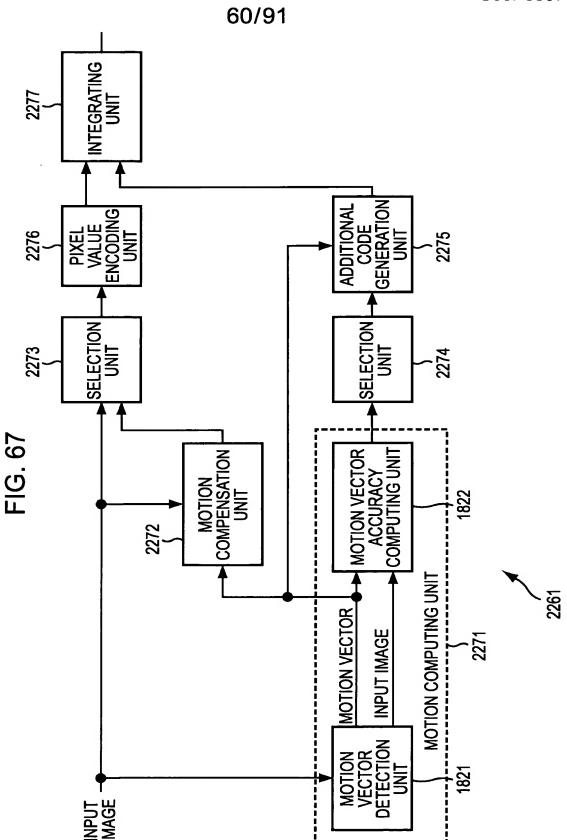


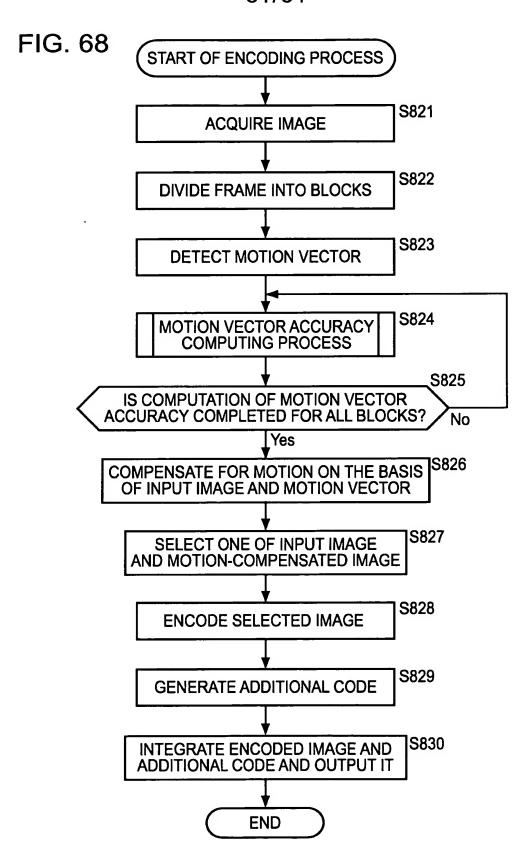


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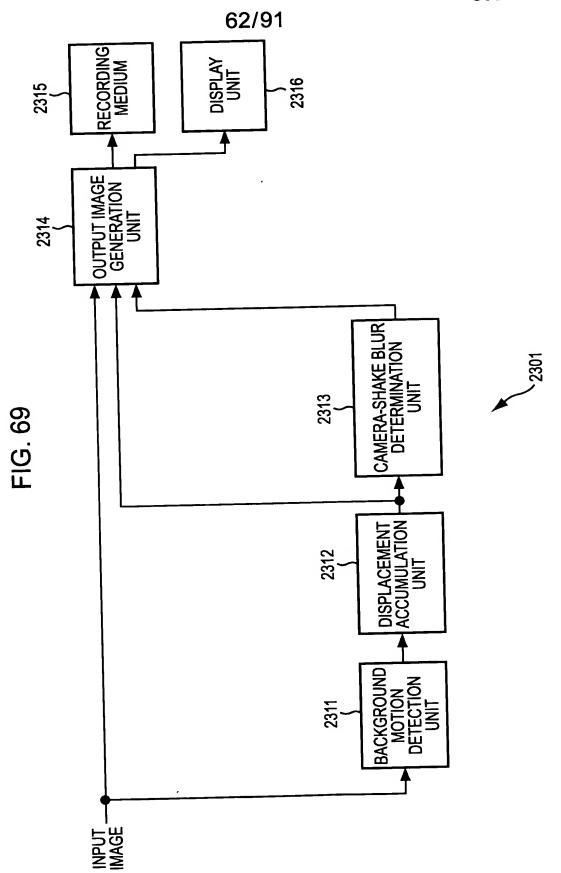


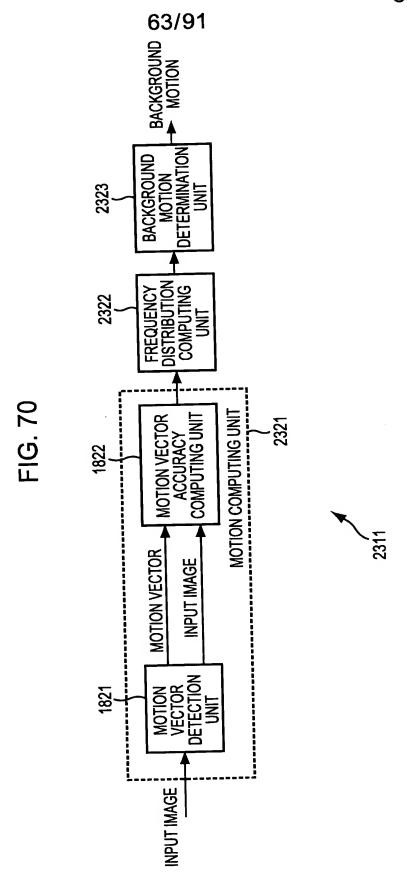




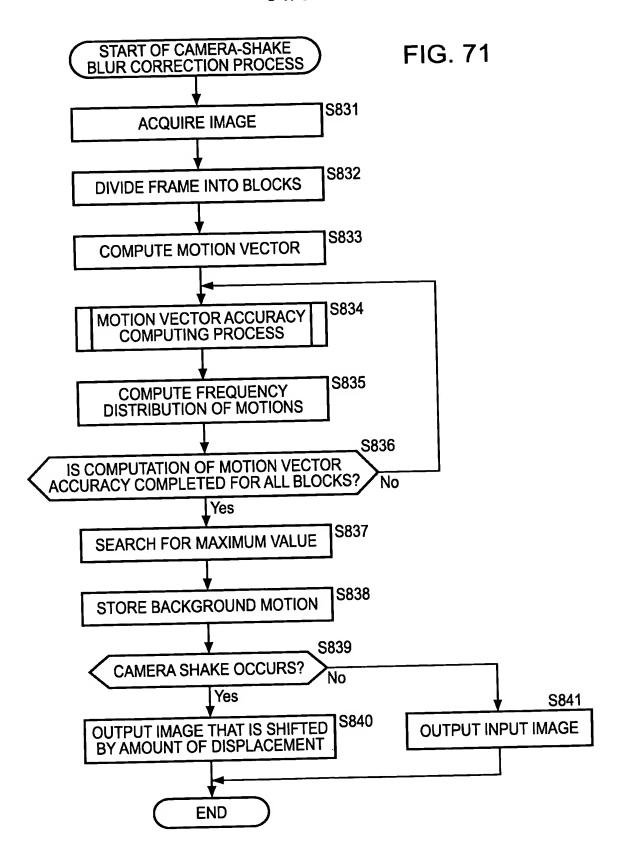




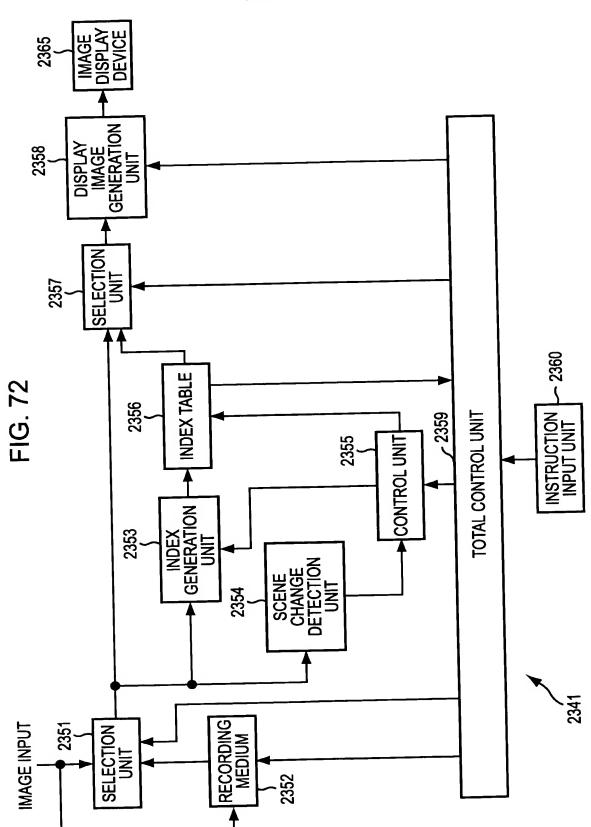


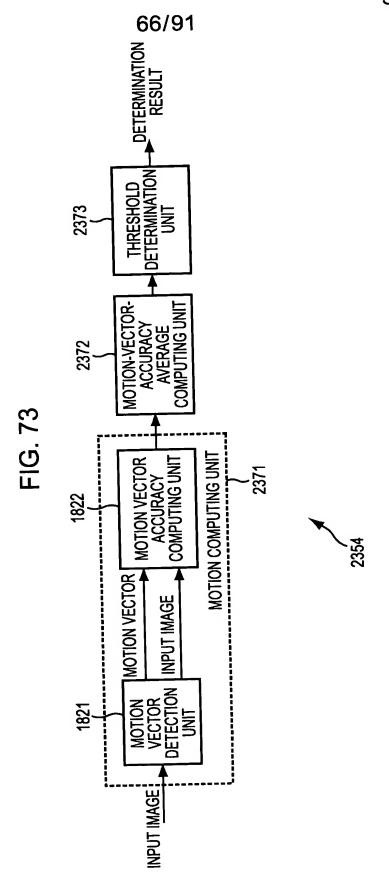


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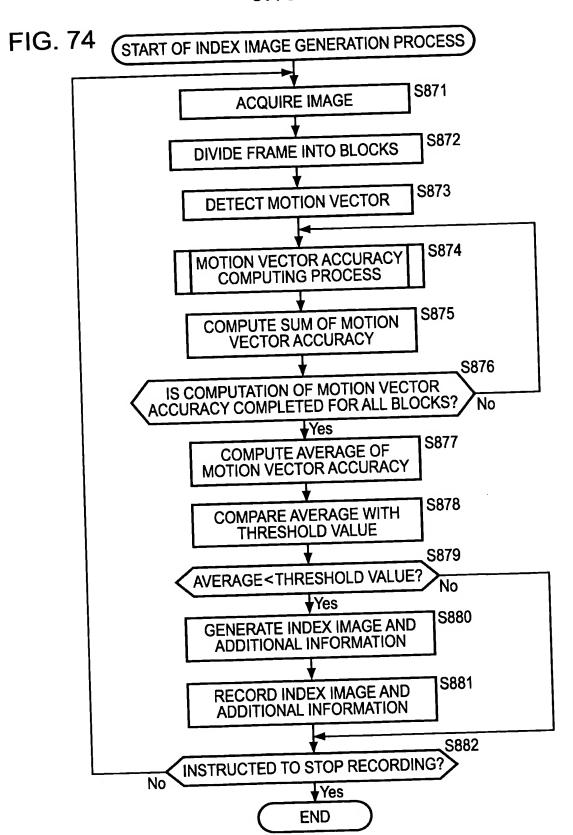
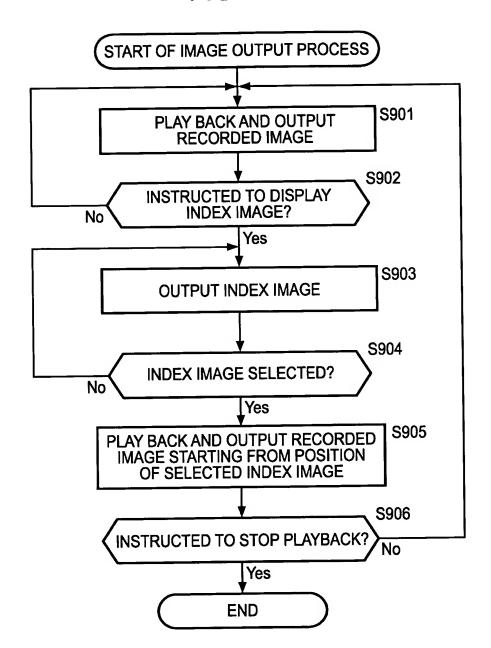


FIG. 75



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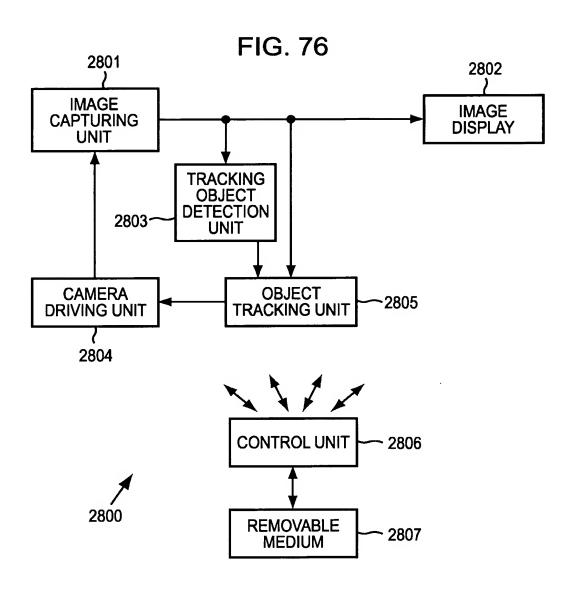
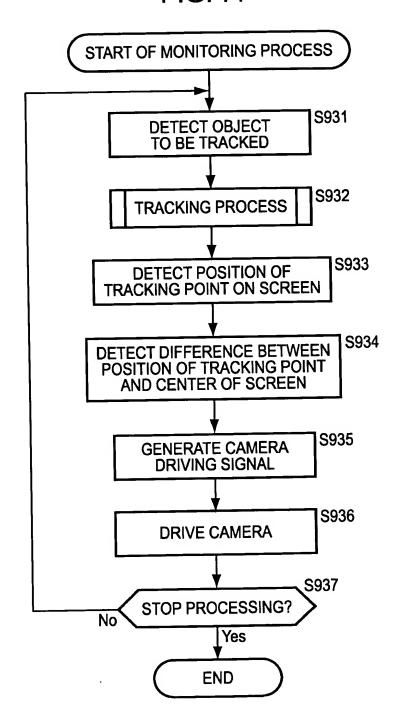


FIG. 77



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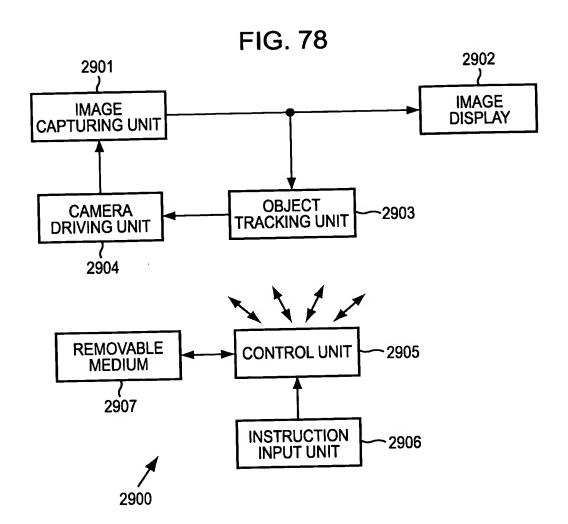
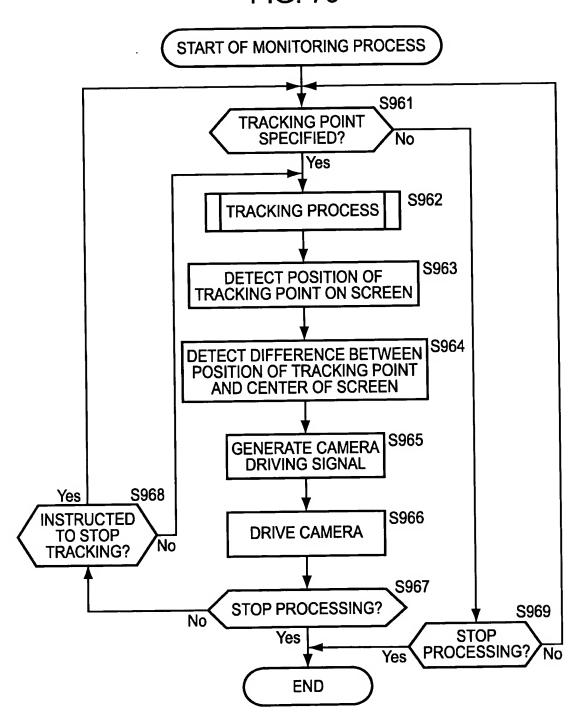


FIG. 79



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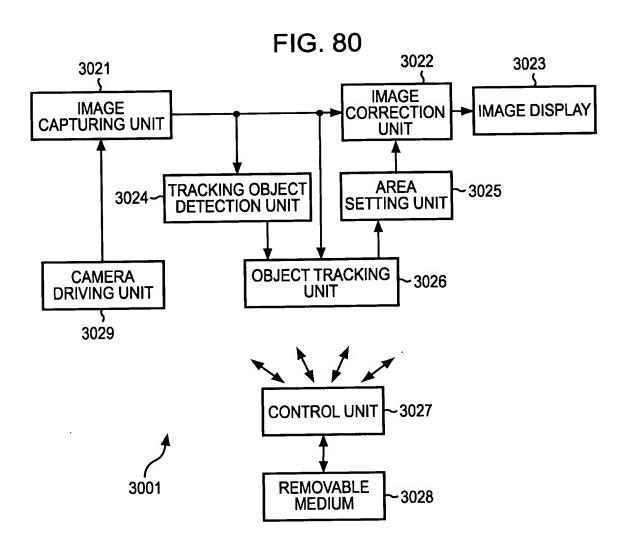
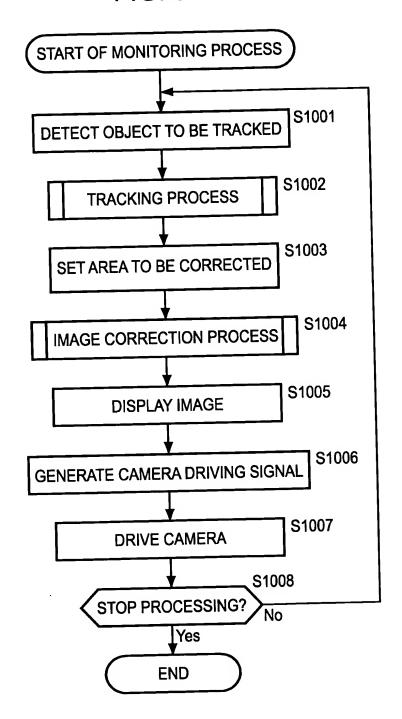
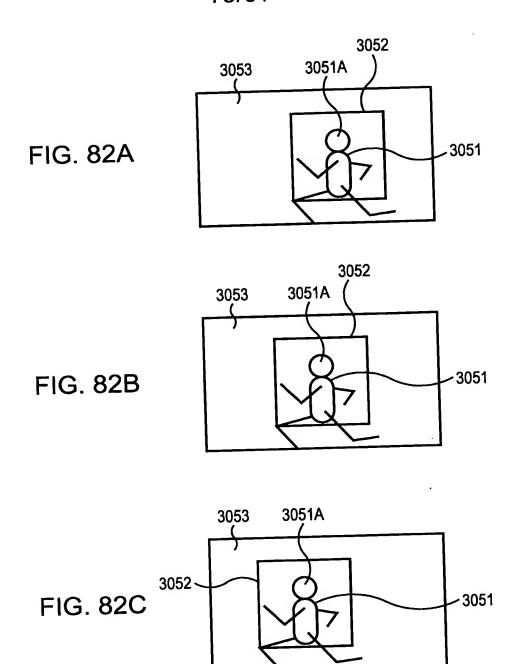


FIG. 81

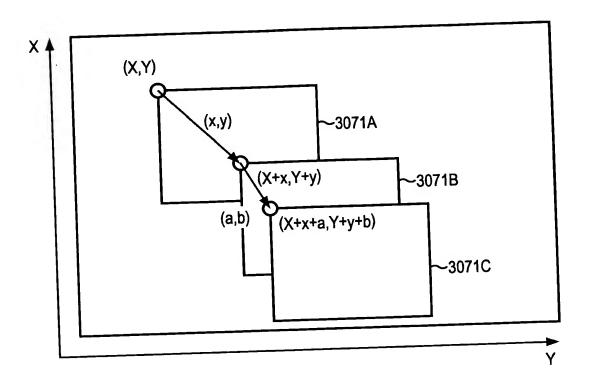


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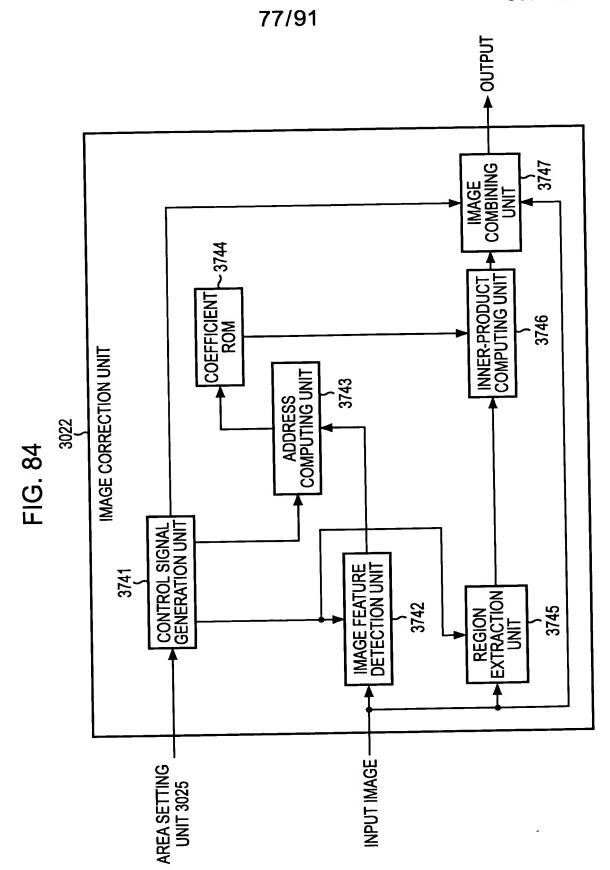
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FIG. 83



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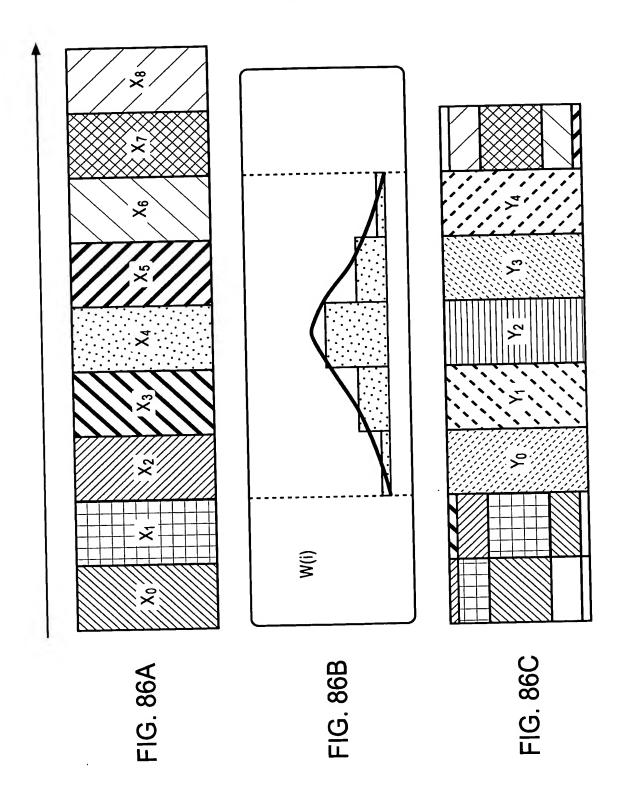


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FIG. 85

NAME	RELATED BLOCK	DEFINITION	
CONTROL SIGNAL A	IMAGE COMBINING UNIT, REGION EXTRACTION UNIT	PULSE FOR IDENTIFYING PROCESSING AREA	
CONTROL SIGNAL B	ADDRESS COMPUTING UNIT	PARAMETER & INDICATING LEVEL OF BLURRING	
CONTROL SIGNAL C	ADDRESS COMPUTING UNIT	SWITCHING OF WEIGHT Wa OF RELATIONAL EXPRESSION	
CONTROL SIGNAL D	IMAGE FEATURE DETECTION UNIT	SWITCHING OF THRESHOLD VALUE	

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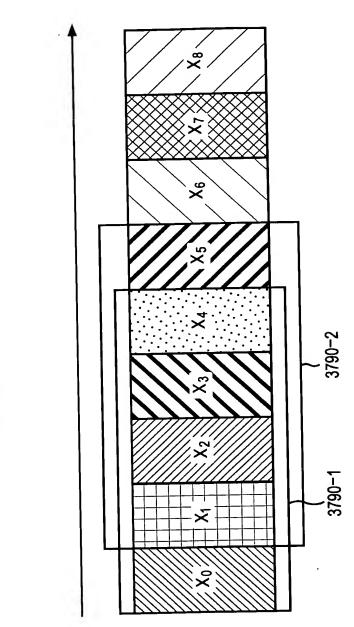
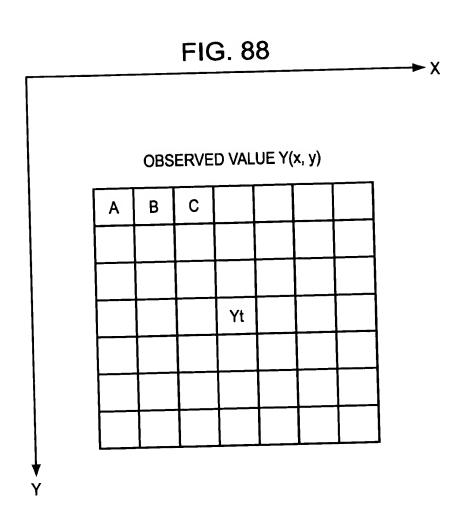
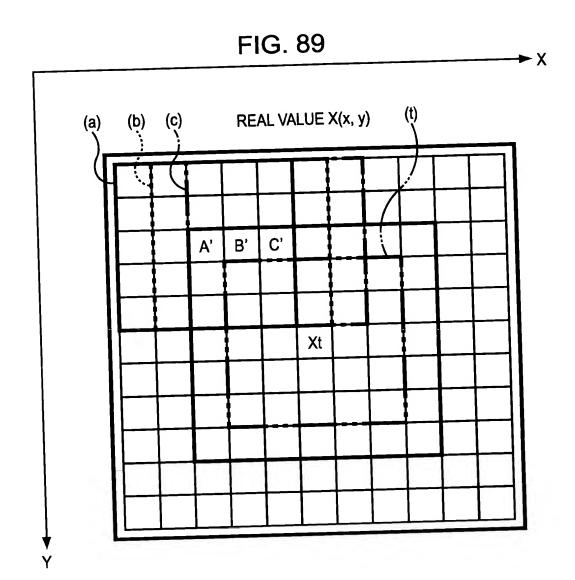


FIG. 87





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FIG. 90

PARAMETER CODE p ₂	W ₁	W ₂	W ₃	W ₄
0001	0.1	0.1	0.1	5.4
0010	0.1	0.1	5.4	0.1
0100	0.1	5.4	0.1	0.1
1000	5.4	0.1	0.1	0.1
0011	0.1	0.1	2.6	2.6
0101	0.1	2.6	0.1	2.6
0110	0.1	2.6	2.6	0.1
1001	2.6	0.1	0.1	2.6
1010	2.6	0.1	2.6	0.1
1100	2.6	2.6	0.1	0.1
0111	0.3	1.7	1.7	1.7
1011	1.7	0.3	1.7	1.7
1101	1.7	1.7	0.3	1.7
1110	1.7	1.7	1.7	0.3
1111	1.3	1.7	1.3	1.3

-

FIG. 91

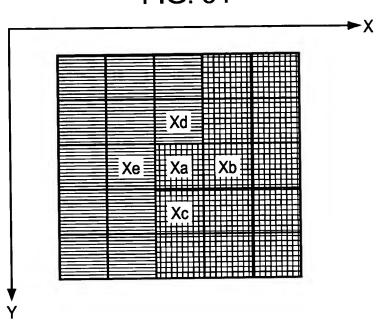


FIG. 92

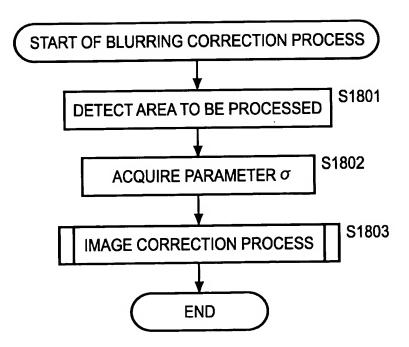


FIG. 93

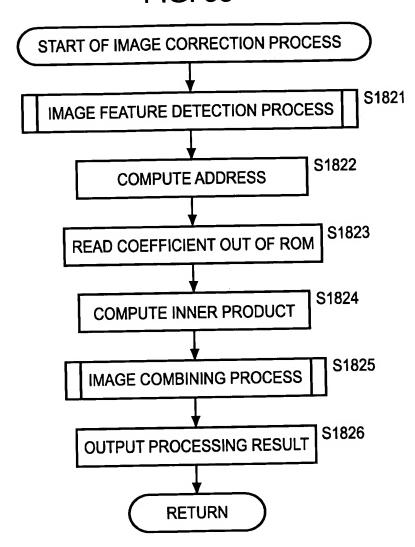
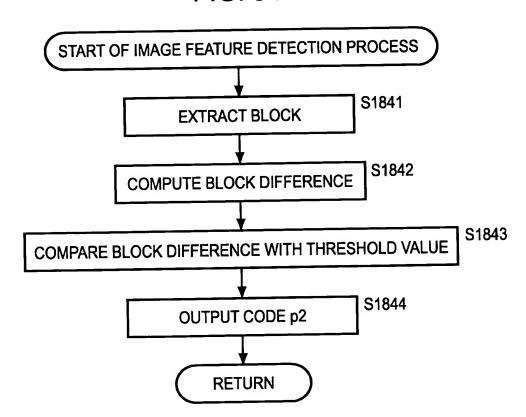
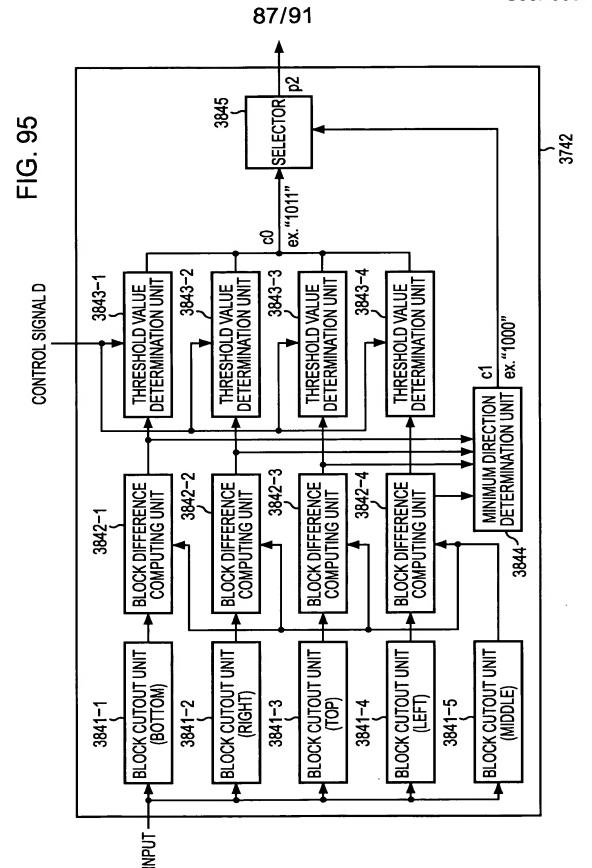


FIG. 94







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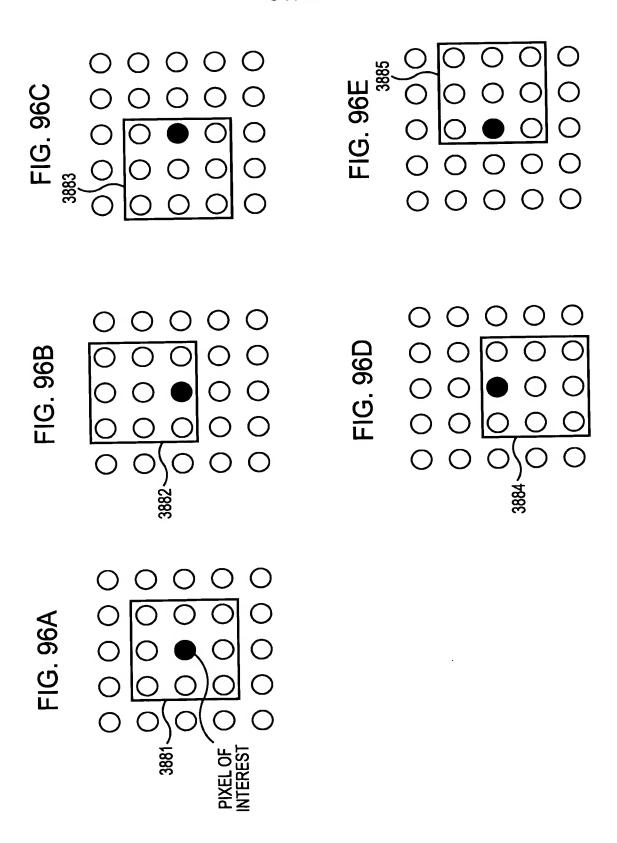
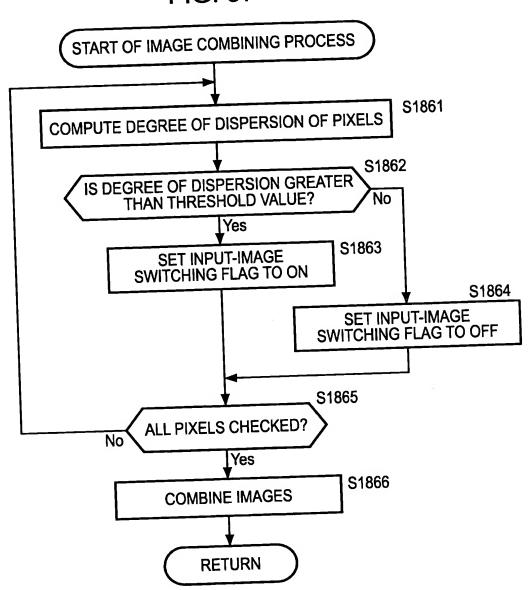
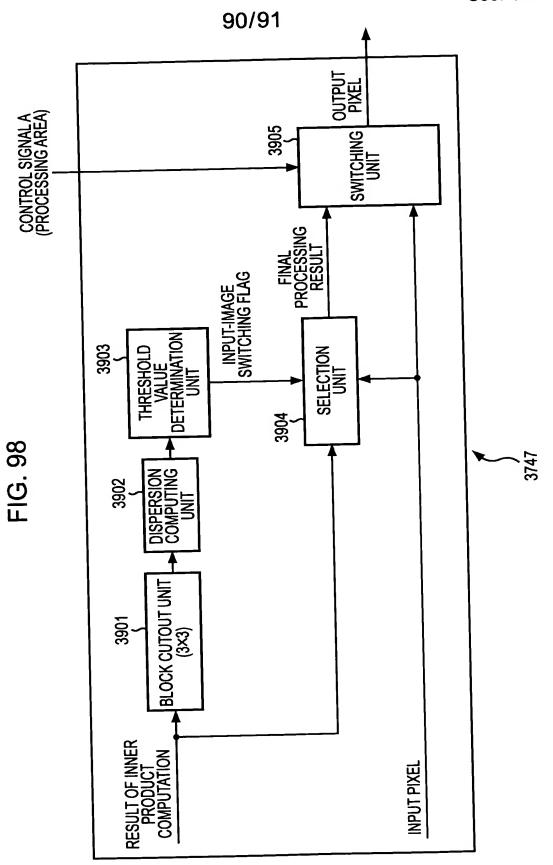


FIG. 97







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FIG. 99

DISPERSION COMPUTING a1 a2 a3 a4 a5 a6 a7 a8 a9 PIXEL OF INTEREST